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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jason S. Felsch, et al. Art Unit : 1639
Serial No. : 10/029,009 Examiner : Mark L. Shibuya
Filed : December 19, 2001
Title : AFFINITY SELECTION-BASED SCREENING OF HYDROPHOBIC
PROTEINS

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO RESTRICTION REQUIREMENT

Responsive to the action mailed August 23, 2005, Applicant elect the species for Group I as provided below.¹ The election is made without traverse.

Applicants elect a hydrophobic target protein that is a membrane protein (see section 6 of the office action); a multiplicity of molecules that are a mass-coded library (see section 7 of the office action); an amphiphile that is a surfactant or detergent (see section 8 of the office action); a tag sequence that is a FLAG tag (NH₂-DYKDDDDK-COOH) (SEQ ID NO:1) (see section 9 of the office action); a hydrophobic target protein with an order that comprises Tag1-HP-Tag2 (see section 10 of the office action); a hydrophobic target protein that is Myc tag-EE tag-Human m2 mAChR (SEQ ID NO: 7) (see section 11 of the office action); a heterologous signal sequence that is the rhodopsin tag 1 signal sequence of NH₂-MNGTEGPNFYVPFSNKTGVVRSPFEAQYYLAEP-COOH (SEQ ID NO: 15) (see section 12 of the office action); tag sequences further comprising a hexahistidine sequence (SEQ ID NO: 17) (see section 13 of the office action); and Mellitin SS-Flag tag-Human Beta 2 Adrenergic

¹ Group I is drawn to hydrophobic target protein SEQ ID NO: 7, epitope tag SEQ ID NO: 29, and a polar liquid, and reads on claims 1-20, 37, and 38.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 22, 2005

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Applicant : Jason S. Felsch, et al.
Serial No. : 10/029,009
Filed : December 19, 2001
Page : 2 of 2

Attorney's Docket No.: 10845-033001 / NE06315

Receptor-EE tag (SEQ ID NO: 20) (see section 14 of the office action). The elected species reads on claim 1.

Upon the allowance of a generic claim, Applicants will be entitled to consideration of claims to additional species as recited in MPEP § 809.02(a).

Enclosed is a check for the petition of extension of time. Please apply any other charges or credits to Deposit Account No. 06-1050 referencing attorney docket no. 10845-033001.

Respectfully submitted,

Date: December 22, 2005

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